

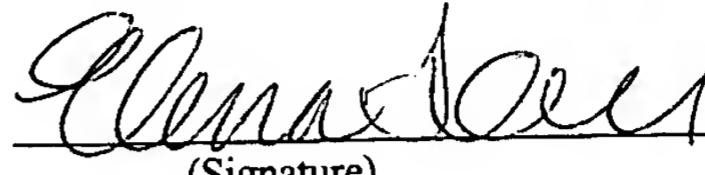


Attorney Docket No: P-4298.P1C1  
Tfw

#### CERTIFICATION OF MAILING

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Elena Torres  
(Print Name)

  
(Signature)

#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

##### In Re: Patent Application

Applicant(s): Kerstin Willmann                      Docket No.: P-4298.P1C1  
Serial No.: 10/635,972                      Group Art Unit: 1641  
Filing Date: 08/07/2003                      Examiner:  
For: **Flow Cytometric, Whole Blood Dendritic Cell Immune function  
Assay**

#### INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Applicants submit the accompanying Information Disclosure Statement by Applicants (substitute for form 1449/PTO) pursuant to 37 C.F.R. §§ 1.56, 1.97 and 1.98. Applicants request that the documents cited on the accompanying Information Disclosure Statement be made of record in the above-referenced application.

##### 1. Copies of References

Copies of all references cited in the accompanying Information Disclosure Statement are provided herewith.

Copies of  all references  the following references \_\_\_\_\_ cited in the accompanying Information Disclosure Statement were submitted in priority application Serial No. 09/158,406, which earlier application is properly identified in the Information Disclosure Statement and is relied on for an earlier effective filing date under 35 U.S.C. 120.

##### 2. Time of Submission

a.  The Information Disclosure Statement is submitted before the mailing of a first Office action on the merits. No fee is due.

b. [ ] The Information Disclosure Statement is submitted after the time period specified in 2(a), but before the mailing date of any of a final action under § 1.113, a notice of allowance under § 1.311, or an action that otherwise closes prosecution in the application, and it is accompanied by:

- [ ] The statement specified under 37 C.F.R. §1.97(e).
- [ ] The fee set forth in 37 C.F.R. §1.17(p).

c. [ ] The Information Disclosure Statement is submitted after the time period specified in 2(b), but on or before payment of the issue fee and is accompanied by:

- [ ] The statement specified under 37 C.F.R. §1.97(e).
- [ ] The fee set forth in 37 C.F.R. §1.17(p).

3. Fee (if required in §2(a) or §2(b))

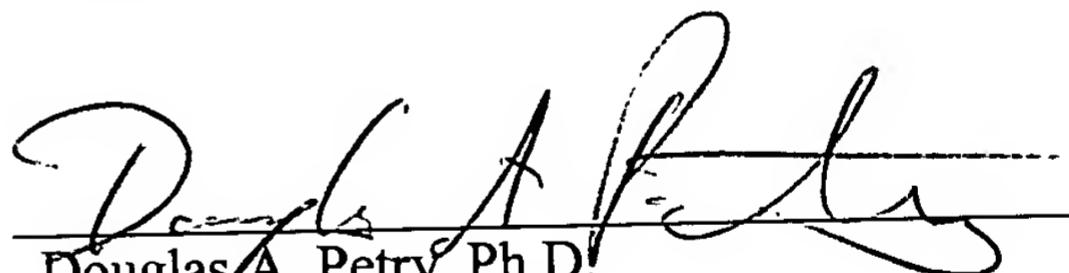
[ ] The commissioner is hereby authorized to charge the fee due under 37 C.F.R. § 1.17(p), which is the amount of \$ 180.00, to my Deposit Account No. **02-1666**. This sheet is provided in duplicate.

[ ] The Commissioner is hereby authorized to charge any additional fees associated with this communication or credit any overpayment to Deposit Account No. **02-1666**. This sheet is provided in duplicate.

The filing of this information disclosure statement shall not be construed to be an admission that the information cited in the statement is, or is considered to be, material to patentability as defined in § 1.56.

Respectfully submitted,

3/12/05  
Date

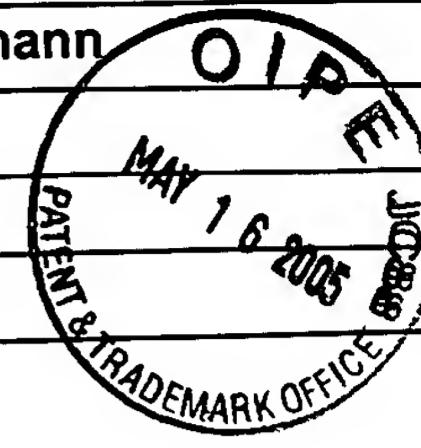
  
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Substitute for form 1449/PTO

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Serial No.	10/635,972
Filing Date	08/07/2003
Inventor	Kerstin Willmann
Art Unit	1641
Examiner	
Docket No.	P-4298.P1C1



## U.S. PATENT DOCUMENTS

Examiner Initials	Cite No.	DOCUMENT NUMBER	Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	AA	4,654,312	03/1987	Chang et al	
	AB	4,902,613	02/1990	Chang et al.	
	AC	5,098,849	03/1992	Hilerio et al.	
	AD	5,597,563	01/1997	Beschorner	
	AE	5,627,025	05/1997	Steinman et al.	
	AF	5,627,040	05/1997	Bierre et al.	
	AG	5,643,786	07/1997	Cohen et al.	
	AH	5,648,219	07/1997	MacKay et al	
	AI	5,648,248	07/1997	Zenke et al.	
	AJ	5,698,679	12/1997	Nemazee	
	AK	5,788,963	08/1998	Murphy et al.	

## FOREIGN PATENT DOCUMENTS

Examiner Initials	Cite No.	DOCUMENT NUMBER	Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>1</sup>
	BA	WO 97/24438	07/1997			
	BB	WO 97/29183	08/1997			
	BC	WO 98/15579	04/1998			
	BD	WO 98/15615	04/1998			

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER	DATE CONSIDERED
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<sup>1</sup> Applicant is to place a check mark here if English language Translation is attached

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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Serial No. 10/635,972

Filing Date 08/07/2003

Inventor Kerstin Willmann

Art Unit 1641

Examiner

Docket No. P-4298.P1C1

T<sup>1</sup>

Examiner Initials	Cite No.	
	CA	Andersson, U. et al., "Enumeration of IFN-.gamma.-Producing Cells by Flow Cytometry," J. Immunological Methods, 112 (1) :139-142 (1988).
	CB	Banchereau, J. et al., "Dendritic Cells and the Control of Immunity," Nature, 392:245-252 (1998).
	CC	Becton Dickinson Immunocytometry Systems, "Detection of Intracellular Cytokines in Activated Lymphocytes," Application Note 1, Immune Function, 1-12 (1996).
	CD	Caux, C. et al., "CD34+ Hematopoietic Progenitors from Human Cord Blood Differentiate Along Two Independent Dendritic Cell Pathways in Response to GM-CSF+TNF.alpha.," J. Exp. Med., 184 (2): 695-706 (1996).
	CE	Caux, C. et al., "Tumor Necrosis Factor-alpha Strongly Potentiates Interleukin-3 and Granulocyte-Macrophage Colony-Stimulating Factor-Induced Proliferation of Human CD34.sup.+ Hematopoietic Progenitor Cells," Blood, 75 (12) :2292-2298 (1990).
	CF	deCaestecker, M.P. et al., "The Detection of Intracytoplasmic Interleukin-1.alpha., Interleukin-1.beta. and Tumor Necrosis Factor .alpha. Expression in Human Monocytes Using Two Colour Immunofluorescence Flow Cytometry," J. Immunological Methods, 154 (1) :11-20 (1992).
	CG	de Saint-Vis, B. et al., "The Cytokine Profile Expressed by Human Dendritic Cells Is Dependent on Cell Subtype and Mode of Activation," J. Immunology, 160:1666-1676 (1998).
	CH	Ghanekar, S. et al., "Cytokine Expression by Human Peripheral Blood Dendritic Cells Stimulated In Vitro with HIV-1 and Herpes Simplex Virus," J. Immunology, 157 (9) :4028-4036 (1996).
	CI	Grouard, G. et al., "The Enigmatic Plasmacytoid T Cells Develop into Dendritic Cells with Interleukin (IL) -3 and CD40-Ligand," J. Exp. Med., 185 (6) :1101-1111 (1997).
	CJ	Grouard, G. et al., "Role of Dendritic and Follicular Dendritic Cells in HIV Infection and Pathogenesis," Current Opinion in Immunology, 9 (4) :563-567 (1997).
	CK	Hallden, G. et al., "A New Membrane Permeabilization Method for the Detection of Intracellular Antigens by Flow Cytometry," J. Immunological Methods, 124 (1) :103-109 (1989).
	CL	Ingalls, R.R. et al., "CD11c/CD18, A Transmembrane Signaling Receptor for Lipopolysaccharide," J. Exp. Med., 181 (4) : 1473-1479.
	CM	Jacob, M.C. et al., "Membrane Cell Permeabilisation With Saponin and Mutiparametric Analysis by Flow Cytometry," Cytometry, 12 (6) :550-558 (1991).
	CN	Jung, T. et al., "Detection of Intracellular Cytokines by Flow Cytometry," J. Immunological Methods, 159:197-207 (1993).
	CO	Kabilan, L. et al., "Detection of Intracellular Expression and Secretion of Interferon-.gamma. at the Single-Cell Level After Activation of Human T Cells with Tetanus Toxoid In Vitro," European J. Immunology, 20 (5) :1085-1089 (1990).
	CP	Kahan, Mel, "Detecting Intracellular Cytokines in Activated Monocytes," Application Note 2, Immune Function, Becton Dickinson Immunocytometry Systems, 1-12 (1997).

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<b>Sheet</b>	<b>Docket No.</b>

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**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

Examiner Initials	Cite No.		T <sup>1</sup>
	CQ	Lore K. et al., "Immunocytochemical Detection of Cytokines and Chemokines in Langerhans Cells and In Vitro Derived Dendritic Cells," J. Immunological Methods, 214:97-111 (1998).	
	CR	Macatonia, S.E. et al., "Dendritic Cells Produce IL-12 and Direct the Development of Th1 Cells from Naive CD4.sup.30 T Cells," J. Immunology, 154 (10):5071-5079 (1995).	
	CS	Maino, V.C. et al., "Flow Cytometric Method for Analysis of Cytokine Expression in Clinical Samples," Clinical Immunology Newsletter, 16(6) :95-98 (1996).	
	CT	O'Doherty, U. et al., "Human Blood Contains Two Subsets of Dendritic Cells, One Immunologically Mature and the Other Immature," Immunology, 82 (3) :487-493 (1994).	
	CU	Olweus, J. et al., "Dendritic Cell Ontogeny: A Human Dendritic Cell Lineage of Myeloid Origin," Proc. Natl. Acad. Sci. USA, 94 (23) :12551-12556 (1997).	
	CV	Picker, L.J. et al., "Direct Demonstration of Cytokine Synthesis Heterogeneity Among Human Memory/Effector T Cells by Flow Cytometry," Blood, 86 (4) :1408-1419 (1995).	
	CW	Prussin, C., Cytokine Flow Cytometry: Assessing Cytokine Production at the Single Cell level, Clinical Immunology Newsletter, 16 (6) : 85-91 (1996).	
	CX	Sander, B. et al., "Assessment of Cytokines by Immunofluorescence and the Paraformaldehyde-Saponin Procedure," Immunological Reviews, 119:65-93 (1991).	
	CZ	Scheinecker, C. et al., "Phenotypic, Morphological and Functional Analysis of CD11c.sup.+ and CD11c Human Peripheral Blood Dendritic Cells," ASH Meeting, San Diego, Dec. 1997.	
	DA	Steinman, R.M. et al., "Identification of a Novel Cell Type in Peripheral Lymphoid Organs of Mice," J. Exper. Med., 137:1142-1162 (1973).	
	DB	Steinman, R.M., "The Dendritic Cell System and Its Role in Immunogenicity," Annu. Rev. Immunol., 9:271-296 (1991).	
	DC	Suni, M.A. et al., "Detection of Antigen-Specific T Cell Cell Cytokine Expression in Whole Blood by Flow Cytometry," Journal of Immunological Methods, 212:89-98 (1998).	
	DD	Thomas, R. et al., "Human Peripheral Blood Dendritic Cell Subsets," J. Immunology, 153 (9) :4016-4028 (1994).	
	DE	Vikingsson, A. et al., "Enumeration of IFN-.gamma. Producing Lymphocytes by Flow Cytometry and Correlation with Quantitative Measurement of IFN-.gamma.," J. Immunological Methods, 173 (2) : 219-228 (1994).	
	DF	Waldrop, S.L. et al., "Determination of Antigen-specific Memory/Effector CD4.sup.+ T Cell Frequencies by Flow Cytometry," J. Clinical Investigation, 99 (7) :1739-1750 (1997).	
	DG	Weissman, D. et al., "Role of Dendritic Cells in Immunopathogenesis of Human Immunodeficiency Virus Infection," Clinical Microbiology Reviews, 10 (2) :358-367 (1997).	

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**Serial No.** 10/635,972

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**Inventor** Kerstin Willmann

**Art Unit** 1641

**Examiner**

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Examiner Initials	Cite No.		T <sup>1</sup>
	DH	Willmann, K. et al., "Peripheral Blood Dendritic Cells Revealed by Flow Cytometry," Application Note 3, Reagents, Becton Dickinson Immunocytometry Systems, 1-12 (1998).	
	DI	Zhou, L. et al., A Distinct Pattern of Cytokine Gene Expression by Human CD83.sup.+ Blood Dendritic Cells, Blood, 86 (9) : 3295-3301 (1995).	
	DJ	Zoetewij, J.P. et al., HIV-Dendritic Cell Interactions Promote Efficient Viral Infection of T Cells, J. Biomed. Sci., 5:253-259 (1998).	
	DK	D. Becker et al., "Flow-cytometric screening for the modulation of receptor-mediated endocytosis in human dendritic cells: implications for the development of an in vitro technique for predictive testing of contact sensitizers", Journal of Immunological Methods, vol. 203, No. 2, pp. 171-180 (Apr. 25, 1997).	

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